DETAILED ACTION

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Eric Ringer (Reg. 47,028) on Nov 25 2009.

12. (Currently Amended) A method of decoding audio data, encoded in

multiple DIF blocks in a Digital Video (DV) frame of a DV data stream, and outputting

said audio data as a PCM frame, the method comprising:

fetching a single Digital Interface Frame (DIF) block from the DV data stream, the DIF

block having a plurality of bytes including a first byte and a last byte;

de-shuffling the first byte in the single DIF block to determine its index (n) in the PCM

frame;

determining, until the last byte, indexes in the PCM frame for subsequent bytes of the

single DIF block from the index determined for the first byte; and

repeating the fetching, de-shuffling, and determining for subsequent DIF blocks in the

DV frame; and

writing the de-shuffled bytes into the PCM frame for output after each DIF block of the

multiple DIF blocks of the DV frame have been fetched from the DV data stream.

19. (Currently Amended) A method of decoding audio data, encoded in multiple DIF

blocks in a Digital Video (DV) frame and outputting said audio data as a PCM frame, the

method comprising:

for each DIF block of the multiple DIF blocks in the DV frame, obtaining a single

respective Digital Interface Frame (DIF) block the single respective DIF block having a

plurality of bytes including a first byte and a last byte,

de-shuffling the first byte of data in the single respective DIF block based on a

calculation to determine an index (n) of the first byte in the PCM frame, ~~and~~

de-shuffling a respective subsequent byte of data in the single respective DIF block until

the last byte in the single respective DIF block is de-shuffled based at least on the index

(n) of the first byte in the single respective DIF block; and

writing the de-shuffled data into the PCM frame for output after each DIF block

of the multiple DIF blocks in the DV frame have been fetched.

Allowable Subject Matter

2.   Claims 1-9 and 12-22 are allowed.

The present invention relates to a method of decoding an audio signal included in

a Digital Video (DV) data stream. The independent **claim 1** identifies the uniquely

distinct features "(i) fetching a single Digital Interface Frame (DIF) block from the DV

data stream, the DIF block having a plurality of bytes including a first byte and a last

byte; (ii) de-shuffling the first byte in the single DIF block to determine its index (n) in the

PCM frame; (iii) for each subsequent byte of data of the single DIF block, de-shuffling

the subsequent byte until the last byte in the single DIF block is de-shuffled;", the

independent **claim 12** identifies similar uniquely distinct features "fetching a single

Digital Interface Frame (DIF) block from the DV data stream, the DIF block having a

plurality of bytes including a first byte and a last byte; de-shuffling the first byte in the

single DIF block to determine its index (n) in the PCM frame; determining, until the last

byte, indexes in the PCM frame for subsequent bytes of the single DIF block from the

index determined for the first byte" and also the independent **claim 19** identifies similar

uniquely distinct features "obtaining a single respective Digital Interface Frame (DIF)

block the single respective DIF block having a plurality of bytes including a first byte and

a last byte, de-shuffling the first byte of data in the single respective DIF block based on

a calculation to determine an index (n) of the first byte in the PCM frame, de-shuffling a

respective subsequent byte of data in the single respective DIF block until the last byte

in the single respective DIF block is de-shuffled". The closest prior art U.S. Patent

6,226,443 to Morioka et al. and Korean Application No. 10-1996-0072736 to Jeong-Gyu

Kim disclose recording and reproducing apparatus and an audio deshuffling apparatus

respectively, either singularly or in combination, fail to anticipate or render the above

underlined limitations obvious.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ASHER KHAN whose telephone number is (571)270-

5203. The examiner can normally be reached on 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marsha Banks- Harold can be reached on (571)272-7905. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/
Supervisory Patent Examiner, Art Unit 2621

/A. K./
Examiner, Art Unit 2621